

WHAT IS CLAIMED IS:

1. An information processing device having a communication function of performing a network connection via a wireless relay apparatus comprising:

5 means for finding the wireless relay apparatus;  
and

means for displaying information, which is characterized according to identification information of the wireless relay apparatus when the means for  
10 finding the wireless relay apparatus finds the wireless relay apparatus.

2. The information processing device according to claim 1, further comprising means for memorizing and managing a finding frequency of the wireless relay  
15 apparatus found by the means for finding the wireless relay apparatus, wherein

the means for displaying the information displays information according to the finding frequency managed by the means for memorizing and managing the finding  
20 frequency.

3. The information processing device according to claim 1, wherein the means for memorizing and managing the finding frequency has means for associating each identification information of the wireless relay  
25 apparatuses which can be found by the means for finding the wireless relay apparatus with information displayed by the means for displaying information and managing

the identification information and the displayed information.

4. The information processing device according to claim 2, wherein, the means for displaying information  
5 generates a peculiar icon or a character message for identification information on the wireless relay apparatus, which is found by the means for finding the wireless relay apparatus, based on information associated with the wireless relay apparatus, which is  
10 found by the means for finding the wireless relay apparatus managed by the means for memorizing and managing the finding frequency, when the means for finding the wireless relay apparatus finds the wireless relay apparatus, and displays the icon concerned or the  
15 character message in a display form corresponding to the finding frequency which is managed by the means for memorizing and managing a finding frequency.

5. The information processing device according to claim 2, wherein the means for displaying information  
20 acquires service information or advertisement information when using the wireless relay apparatus found by the means for finding the wireless relay apparatus based on information associated with the wireless relay apparatus which is found by the means  
25 for finding the wireless relay apparatus managed by the means for memorizing and managing a finding frequency when the means for finding the wireless relay apparatus

finds the wireless relay apparatus, and displays the acquired corresponding Information.

6. The information processing device according to claim 1, wherein the means for displaying information  
5 judges a condition associated with the wireless relay apparatus found by the means for finding the wireless relay apparatus managed by the means for memorizing and managing a finding frequency when the means for finding the wireless relay apparatus finds the wireless relay  
10 apparatus, and reflects the corresponding judgment contents in the display information or the display form.

7. The information processing device according to claim 1, wherein the means for displaying information  
15 displays selectable Information characterized according to identification information on the found wireless relay apparatus, and sets connected environment using the wireless relay apparatus found by the means for finding the wireless relay apparatus when the  
20 corresponding information is selected.

8. The information processing device according to claim 1, wherein the means for displaying information comprises means for acquiring a database associating each identification information of the wireless relay  
25 apparatuses which can be found by the means for finding the wireless relay apparatus with information displayed by the means for displaying information from an

external apparatus which is connected with the network through the means for finding the wireless relay apparatus and the wireless relay apparatus and managing the database.

5           9. A computer program for network-connectable device through a wireless relay apparatus, the program being stored in a computer readable medium, and the program comprising:

          finding the wireless relay apparatus; and  
10           displaying characterized information according to an identification information on the found wireless relay apparatus.

          10. The program according to claim 9, wherein the displaying includes managing each finding frequency of  
15           the found wireless relay apparatuses, and reflecting the managed finding frequency to the displayed information.

          11. The program according to claim 9, wherein the displaying includes managing a database which  
20           associates the wireless relay apparatuses each identification information which can be found with display information, acquiring information associated with the found wireless relay apparatus from the database, and displaying the acquired information in  
25           the display form corresponding to the finding frequency of the found wireless relay apparatus when finding the wireless relay apparatus.

12. The program according to claim 9, wherein the  
displaying includes displaying information capable of  
select operation, characterized according to  
identification information on the found wireless relay  
5 apparatus, and setting connection environment using the  
found wireless relay apparatus when the displayed  
information is selected.